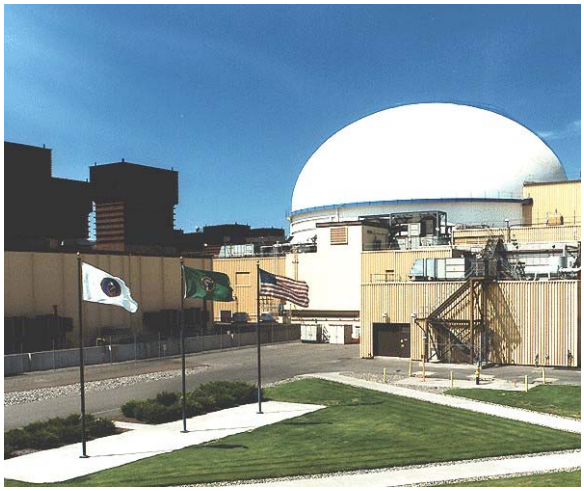
Fast Flux Test Facility Closure Project And Advanced Reactor Transition Program

A. C. Crawford, Project Director/(509) 376-5457



FFTF

Solid Waste Cask

NE Legacies:
337 High Bay

Plutonium Recycle Test Reactor:
309 Building

Overview

The mission of the Fast Flux Test Facility (FFTF) Closure Project, PBS RL-CP04, is to deactivate and decommission the FFTF facility. The FFTF Closure Project was directed on November 8, 2002 to stop decommissioning activities and maintain the FFTF in the condition existing at that time. This action was taken by RL as the result of a legal suit brought by Benton County in Federal Court. The staff had suspended actions for secondary sodium drain and other equipment removal activities. Efforts have been directed towards restoring the fuel handling and washing systems that have been under long-term maintenance and modification. (Note: The FFTF Closure Project was directed to resume deactivation activities on April 4, 2003.)

The Advanced Reactor Transition (ART) Program, PBS RL-RC03, consists of the Nuclear Energy (NE) Legacies and the 309 Building/Plutonium Recycle Test Reactor (PRTR) activities. A change request has been provided to RL to retain the 309 Building/PRTR scope in the FH contract until April 30, 2003, at which time it will transfer to a pending contract for the River Corridor work scope. (Note: A baseline change request is being processed to retain the 309 building/PRTR scope until June 30, 2003.)

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2003.

Notable Accomplishments

FFTF Closure Project/CP04

Sodium Removal System (SRS): A system pressure test was performed, confirming the system was leak tight after recent repairs. The SRS Readiness Assessment continued with completion of team assessment forms.

Closed Loop Ex-Vessel Machine (CLEM): The CLEM has returned to fuel handling operations following the satisfactory Readiness Assessment. Initial operations involving shuffling fuel assemblies in preparation for fuel offload are now complete.

Solid Waste Cask (SWC): Assembly of the SWC was completed. Calibration, Grooming and Alignment was successfully performed.

Secondary Sodium Drain: Preparations were made for draining the secondary sodium to the sodium storage facility.

Patrol Blast Shields for Containment Mezzanine: Installation of the bullet-absorbing-fiberglass panels on the mezzanine handrails was completed. Panels were also installed on the platform deck plates and lug-pattern steel plates were installed on the handrails at several locations to provide protection to patrol personnel while accessing the patrol positions.

ART Program/RC03

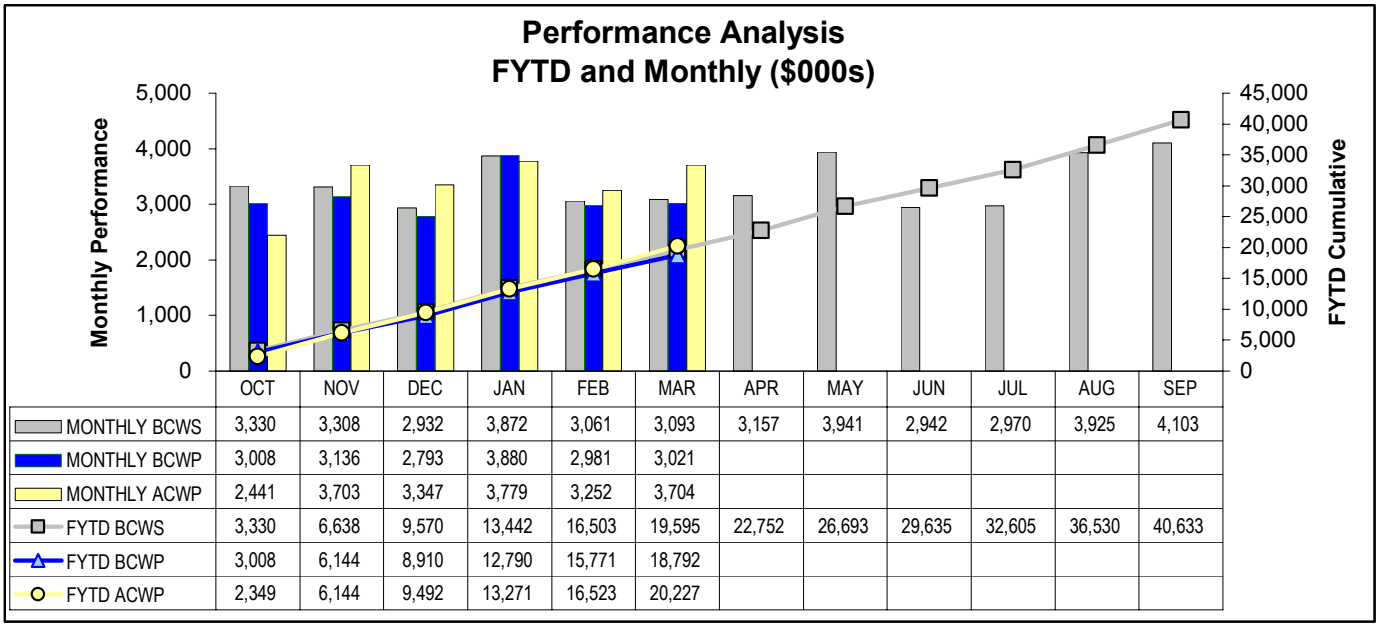
NE Legacies Deactivation: Vendor bids for cleaning sodium residues from the 3718-M and Composite Reactor Component Test Activity (CRCTA) tanks were received and are currently being evaluated. Contract award is planned for mid-April. Work continues on preparing the tanks to accept the vendor's equipment. Removal of insulation from the caisson walls and ceiling, in the area where modifications to the piping will be made to facilitate CRCTA cleaning, is complete.

FY03 Schedule/Cost Performance ($000)

Schedule Performance: The FYTD schedule variances (-$1,011K for FFTF and +$208K for ART) are within established thresholds (+/- 10% or $1M). The FFTF unfavorable schedule variance is primarily due to sodium drain and related activities being on hold. Fuel offload is also a contributing factor.

Cost Performance: The FYTD cost variances (-$1,439K for FFTF and +$4K for ART) are within established thresholds (+/- 10% or $1M); therefore no explanation is required. The FFTF unfavorable cost variance is primarily due to sodium drain preparations, fuel offload and systems shutdown.

		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance $	Schedule Variance %	Cost Variance $	Cost Variance %	Budget At Completion
RL-CP04	**FFTF Project**	19,157	18,146	19,585	-1,011	-6%	-1,439	-8%	38,428
RL-RC03	**Advanced Reactor Transition**	438	646	642	208	32%	4	1%	2,205
Total ART and FFTF		**19,595**	**18,792**	**20,227**	**-803**	**-4%**	**-1,435**	**-8%**	**40,633**



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	3,330	3,308	2,932	3,872	3,061	3,093	3,157	3,941	2,942	2,970	3,925	4,103
MONTHLY BCWP	3,008	3,136	2,793	3,880	2,981	3,021						
MONTHLY ACWP	2,441	3,703	3,347	3,779	3,252	3,704						
FYTD BCWS	3,330	6,638	9,570	13,442	16,503	19,595	22,752	26,693	29,635	32,605	36,530	40,633
FYTD BCWP	3,008	6,144	8,910	12,790	15,771	18,792						
FYTD ACWP	2,349	6,144	9,492	13,271	16,523	20,227						

Milestone Achievement

Tentative Tri-Party Agreement milestones for FFTF deactivation have been negotiated between RL, Washington State Department of Ecology and the U.S. Environmental Protection Agency. Subject to public comment and revision as may be appropriate, finalization of milestones is anticipated now that the litigation is resolved.

FY 2003 FH FUNDS VS FORECAST ($000)

	Expected Funds	Spend Forecast	Variance
RL-CP04 Fast Flux Test Facility	$ 38,172	$ 38,172	$ 0
RL-RC03 Advanced Reactor Transition	$ 2,193	$ 2,154	$ 39
Total	**$ 40,365**	**$ 40,326**	$ 39

Note: Updated to reflect FY 2003 funding reductions (BCR #FH-2003-014)